

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference NM5212	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/IB2002/001384	International filing date (day/month/year) 25.04.2002	Priority date (day/month/year) --
International Patent Classification (IPC) or national classification and IPC H04Q 7/38, H04M 15/00, H04M 17/00		
Applicant Nokia Corporation et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (sent to the applicant and to the International Bureau) a total of 8 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

Date of submission of the demand 18.02.2003	Date of completion of this report 14.07.2004
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Fredrik Blomqvist / JA A Telephone No. +46 8 782 25 00

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB2002/001384

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1 - 14 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* 1 - 8 _____ received by this Authority on 2004.04.15
- pages* _____ received by this Authority on _____
- ☒ the drawings:
- pages 1 - 2 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB2002/001384

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-38</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	<u>1-38</u>	YES
	Claims	_____	NO
Industrial applicability (IA)	Claims	<u>1-38</u>	YES
	Claims	_____	NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International search report:

- D1) US2001024950 A1
- D2) WO0069201 A
- D3) EP1065838 A
- D4) US6101379 A
- D5) WO9956492 A
- D6) WO0045611 A
- D7) US2002034298 A1

The claimed invention relates to the method and network system for charging an account related to a terminal device of a subscriber to a first data network session rendered to the terminal device when roaming in a second data network. The claimed invention solves the problem of complicated online charging of roaming network subscribers.

D1 is considered the closest prior art and relates to a method of routing Call Detail Records (CDRs) for a subscriber from a foreign network to a home network whilst the subscriber is roaming in the foreign network. D1 solves the problem of charging when it is too complicated and takes too long before the CDRs are forwarded on to the home network. D1 solves the problem by routing CDRs for a subscriber from a serving exchange (a mobile switching centre, MSC) to a billing system.

The invention according to D1 include the following steps:
-registrates the terminal device (the mobile subscriber) with the second network (the foreign network, see paragraph 0006 in D1);

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: BOX V

-transmits a network address of a charging system related to said first network from the first network to the second network (a billing system address is coupled to the first network, paragraph 0008);

-establishes a network session for the terminal device by the second data network;

-assesses in the second data network first charge information about the network session (see paragraph 009);

-transmits assessed charge information from the second data network to the network address of the first charging system (it transfers info of CDRs to the billing system address, see paragraph 0010);

-calculates a charge for the network session at the first charging system using incoming first charge information (see paragraph 0037).

The cited prior art differ from the claimed invention in that it does not describe that the step of transmitting the network address of the first charging system from the first data network to said second data network is performed before the step of registering the terminal device to the second data network.

Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-38 is novel and is considered to involve an inventive step. The invention is industrially applicable.